FLORIDA SKIP

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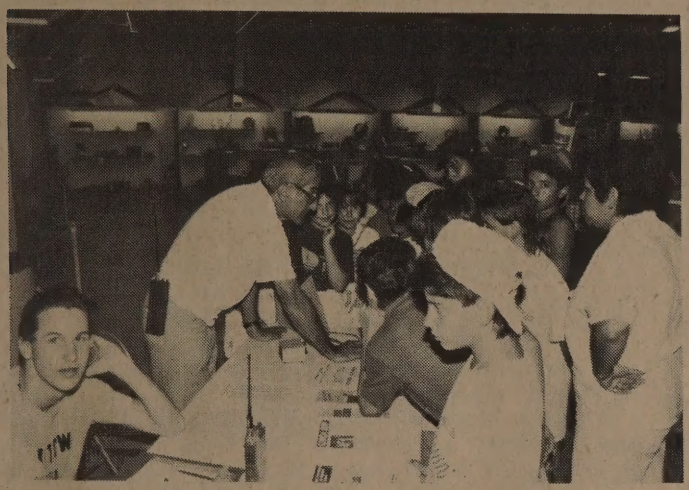

At the Dade County Youth Fair in Miami, Harry Pilafian, W4SQG (C) explains all about Amateur Radio to a group of grade schoolers. Also N4TCW (lower left) gives a demo on 2 meters and passes out Sample Florida Skips...

OPERATION DESERT SHIELD

By Dave Kaiser, AL7HG
AEM3USA
P.O. Box 574
Dhahran, Saudi Arabia 31311

AEM3USA, has been established as a Military Affiliate Radio Station (MARS) gateway facililty to handle thousands of radio messages from families in the United States for deployed U.S. troops participating in the Operation Desert Shield in Dhahran, Saudi Arabia.

A MARS station was easy to establish in Dhahran at the location of HZ1AB, an amateur radio station already in place at the local military base, but which went off the air after Iraq invaded Kuwait. HZ1AB has also resumed operation during slow

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COMING EVENTS Boys Club Hamfest Jan. 20th
Ft. Myers Hamfest, Jan. 19th
Citrus Co. Hamfest, Jan. 26th
Miami Hamboree, Feb 2nd & 3rd
Sarasota Hamfest, Feb. 16 & 17th
Stuart Hamfest, Feb. 23rd
Brooksville Hamfest Feb. 23rd
No./Fla. Hamf/Swapfest Mar 16 & 17
Orlando Hamcation, Mar. 15, 16 & 17th
Miss anyone? Advise ASAP. AC

CROSSWIND AT THE TOP

By Bob Sherin, W4SX, Miami

Last month's **Florida Skip** about the FCC, "View from the Top," sparked an outpouring. Readers reacted to the subject-matter — History, First Amendment, Politics, Part 97, Phone Patching, Missionaries, Information Bulletins and Our Present and Future — by expressing a hunger for more.

One reader, a savvy criminal lawyer, voiced a certain cynacism. He had a good point. Because on October 18th when **Florida Skip** conducted its hour-long interview in Washington with the very respected Private Radio Bureau Chief Robert H. MCNamara and Personal Radio Branch Counsel Tom Fitz-Gibbon, the Commission was, unbeknownst to us, under fire from one of its own.

Ervin S. Duggan blasted FCC policy-making as "a frustrating . . . top down, one option process of deliberation (and) . . . a faulty process in danger of producing a faulty product."

Critics in the amateur community charge that the FCC is violating the Fifth Amendment to the U.S. Constitution by exacting monetary forefeitures from hams for alleged infractions without granting them trial-like hearings.

Duggan assailed the FCC process everything, saying that Chairman Alfred Sikes generally asks subordinates " . . . not for their substantive contributions but merely for their obedient pawprints on FCC Orders." Upon completion of his October 11th speech before the FCC Bar Association, in which he made these remarks, Duggan was presented with a pawprint by the FCC General Counsel's Office.

Over 100 Commission decisions are already being challenged before federal appeals courts. And more are expected.

Who is this iconoclast anyway? The newest commissioner of five, Ervin S. Duggan was nomianted by President Bush to the FCC Democratic vacancy on January 24, 1990. He was confirmed unanimously by the U.S. Senate on February 28th to a term which will end on June 30, 1994.

Of Duggan's sharp commentary, Sikes said, "It was an interesting thought-provoking speech, and I look forward to continuing to work cooperatively with Ervin and by colleagues."

As the liberal counterbalance to a conservative Commission, Duggan is sure to impact our future. For example, though regulator McNamara believes that political discussions and wide ranging information bulletins have no place on ham radio, Duggan is uniquely positioned to take an opposing view.

FOr in his career before joining the FCC, he viewed Washington from several vantage points: from the press as a reporter for the Washington Post and as a National Editor of the Washington Magainze; from the White House as an assistant to President Lyndon B. Johnson, and from Capitol Hill as a special assistant to Senators Lloyd Bentsen of Texas and Adlai E. Stevenson III of Illinois.

As the heretic at the top, Duggan gained broad experience in the workings of the Executive Branch of government during the 1970s: in domestic policy as a Special Assistant to Secretary of Health, Education and Welfare Joseph A. Califano, Jr. and in

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DEADLINE: 8th of month in P.O. Box 501, Miami Springs, FL 33266.

(See advertising rates in Hambar Section.)

SILENT KEYS

We are deeply soory to report the passing of the following Florida Amateur Radio Operators.

WA4GYJ	Rev. Robert Updegraff	Jacksonville
W4DSI	Larry Hamilton, 80	Miami
Maj. Les	Cox, K4RNG, 91	Clermont
W3SUA	A. R. Goode	Ocala
W4DK	Eugene Fritschel	Ft. Lauderdale
KG4GU	Jack Sturm	Orange Park
K4HPM	R.F. Wilkinson	Melbourne
KA4MEF	Ed Hyrne	Palm Coast
[illegible]4QED	H. Ellis Saxton	Boca Raton
[illegible]4PVE	Ward Atherton	Ft. Pierce
N4UMV	George Lovelace	Lakeland
[illegible]8CEU	Peter Susko	Cape Coral

YOUR HAM LICENSE

When was the last time you looked at your amateur license? Do you know when it expires? You should! Even with a two-year grace period, time slips by fast. If you do not know when your ticket runs out, I would suggest you find it now and make a note of it.

This all leads up to one point, if you need a FCC 610 Form **Florida Skip** can supply you with one or two provided you send us a number 10 (10-inch) evelope, self-addressed and stamped to: Skip 610, P.O. Box 501, Miami Springs, FL 33266.

The Miami FCC Field Office was kind enough to send us about 200 forms recently to pass out as needed. Play it safe . . . check your license now.

TODAY'S PEOPLE: BARRY GOLDWATER

Meet amateur radio's elder statesman, Barry Goldwater, K7UGA, in an interview taped at the Goldwater Ranch exclusively for hams, teachers and amateur radio instructors. See Barry's station and join teen interviewer, Kelly Howard, N6PNY as she questions K7UGA on career, family and amateur radio.

Seven minutes in color on VHS, it is perfect for classroomn instruction and radio club presentation. Produced by the team that brought you "The New World of Amateur Radaio," the tape is just $19.95 plus $3.00 for shipping and handling prepaid (no COD's please) to Bill Pasternak, WA6ITF, 28197 Robin Avenue, Saugus, California 91350.

—From Westlink Report

TO THE EDITOR

Dear Andy:

I have been a radio amateur since 1929 so that I am one of those who was raised on cable wireless, so to speak. I got my extra-class rating at the age of 68 at a time when the tests were still being administered by the FCC.

As soon as the testing was turned over to the amateurs I became a volunteer examiner. I regard this service as a measure of repayment for the enjoyment experienced in my lifelong hobby. I have attended every exam given in the Central Florida area since then, usually serving as a code examiner.

It seems to me that it is important to maintain code as an optional form of amateur communication. However, we are not encouraging its use by our present methods. Today only a small percentage of all amateurs are interested in code communications.

Most code examinees are poorly prepared and, if they do pass, it is usually by a narrow margin. Some of them never even pick their pencils up off the table during the test period.

Won't you please give your consideration to the enclosed editorial which I have written to set forth what I believe to be a constructive suggestion to preserve the code and, at the same time, to relieve the majority from the useless task of "learning" it.

If you see fit, I would be most happy to see it published, in some form, in **Florida Skip**.

Yours truly,
Charles W. Finnigan, NE4I
Editor, Keyed Up

EVERGLADES AMATURE RADIO CLUB WEBLOS JAMBOREE/J.O.T.A.

By Chuck Bundesen, N4YGW

On October 20th, the Everglades Amateur Radio Club operated the club stations, W4SVI, from the Boy Scouts' Weblos Jamboree at St. Thomas University.

Club President Bob Connolly, WD4MRT; Vice President Scott Buell, WD4PWC and members: Don Compton, KD4BU; Harry Ryttenberg, KC4QHS; Chuck Bundesen, N4YGW; and Dave Doucette, SWL, introduced more than 1,100 nine- and ten-year-old Weblos Scouts to the wonders of amateur radio.

The jamboree coincided with the Scout's Jamboree on the Air (JOTA). Amateur radio stations worldwide participate in the JOTA. W4SVI contacted numerous JOTA stations both in the United States and abroad. Many of the Weblos Scouts had the opportunity to talk on the air with other scouts.

Club members had a fine time and the boys seemed to enjoy the station so much their leaders had to nearly drag them away.

INDIAN RIVER AMATEUR RADIO CLUB

Amateur Radio classes will be held from 6:00 p.m. to 9:30 p.m. at Merritt Island High School, Room 125E.

The classes, held under the County's Adult Community Education Program, will be on Monday and Wednesday evenings for 16 weeks. Students will learn Morse Code, FCC Laws, novice, technician and general license class electronics theory, and will be able to take FCC-authorized exams for amateur radio licenses.

The Brevard registration fee is $25.00 and books will be available at an additional cost.

Local members of the Indian River Amateur Radio Club heartily endorse this course.

For further information, call 777-1567 or 784-3272.

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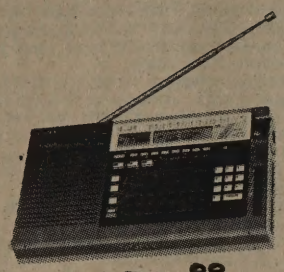

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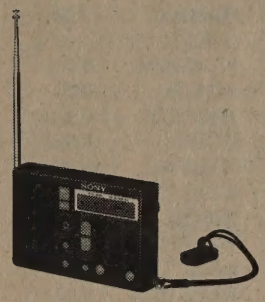

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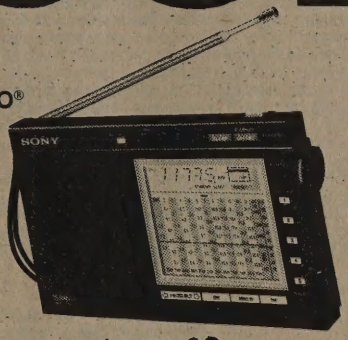

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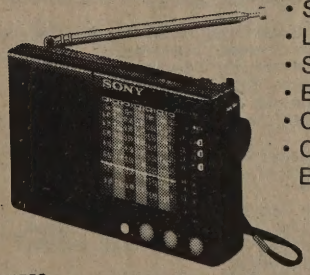

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TRAFFIC HOUNDS — NOVEMBER 1990

By K4ZK, STM South Florida

NET	QNI	AVG.	QTC	AVG.	SESSIONS	MGR	QTC/QNI
QFN	1,033	17.2	897	15.0	60	AA4HT	0.86
FMTN	744	24.4	536	17.2	30	W4NFK	0.72
SWFTN	905	34.8	516	19.8	26	K4FQU	0.57
FPTN	1,281	42.7	437	14.5	30	WB4WYG	0.34
NFPN	2,387	79.6	416	13.9	30	WA4NDA	0.17
SEFTN	1,178	39.3	374	12.5	30	KD4GR	0.31
TPTN	620	20.7	273	9.1	30	WX4J	0.44
GN	253	8.4	227	7.5	30	W4MEE	0.89
FMSN	426	14.2	169	5.6	30	N4KFU	0.39
FAST	591	9.9	157	2.6	60	WD4KBW	0.26
SVTN	639	22.0	150	5.2	29	KB4LB	0.23
FPON	401	13.4	96	3.2	30	WB4GCK	0.23
QFNS	221	7.3	76	2.5	30	KC4FL	0.34
SPARC	605	20.2	34	1.1	30	WD4FAL	0.05
PBTN	418	16.8	29	1.1	26	WA4RUE	0.06
GCVTN	604	20.1	20	0.7	30	N4SGQ	0.03
AIN	67	16.8	11	2.8	4	WA4PFK	0.16
ENMC	55	11.0	11	2.2	5	K4ZK	0.20
PRVAN	34	4.9	7	1.1	7	WD4KBW	0.20
DEN	268	67.0	6	1.5	4	N4VDM	0.02
BEN	117	29.0	0	0.0	4	KD4GR	0.00

Total QTC: 4,442 • Average QTC/QNI: .31

LATE TRAFFIC HOUND FOR OCTOBER

DEN	298	59.6	10	2.0	5	N4VDM

TOP TWENTY TRAFFICERS — NOVEMBER 1990

By WA4PFK and KB9LT

1.	W3CUL	3,176	11. K4SCL	407
2.	W3VR	1,242	12. KB4WBY	361
3.	WD4IIO	926	13. WA4QXT	358
4.	KB6ECH	910	14. AA4HT	326
5.	K4FQU	802	15. WA4PFK	319
6.	WA4EIC	559	16. W4NFK	291
7.	WA9VND	535	17. KD4GR	287
8.	N4SS	461	18. WB0HOX	274
9.	KB9LT	413	19. W4MEE	226
10.	N4KFU	408	20. K4ZK	217

S.S.B. TRAFFIC NETS

By Joe Scungio, N4KFU

The SSB Nets were hopping as the Thanksgiving Holiday burst unto the scene. You could just see and feel the changes as you listened to the nets.

I was at the Tampa Hamfest during the past month and at the Traffic Handlers Forum there was quite a bit of discussion regarding the number of messages with incorrect message check counts. Additionally, old N4KFU's old buddy WA4PFK, was complimenting me again regarding my traffic handling abilities and as usual had a few suggestions.

He suggested (Heh! Heh!) that I be careful when listing my out-of-state traffic and noted that the various nets sometimes list traffic differently. For example:

1. On FPTN messages for the Eastern Seaboard (First, Second, Third, Eighth and Eleventh Regions) and/or Fourth Region (Virginia, North Carolina, South Carolina, Georgia and Florida states) are routed through a mid-day representative and may be listed as Eastern. Any traffic west of these regions is listed as Fifth Region.

2. On TPTN all out-of-state traffic is usually routed through the FMSN Cable Wireless Net. Therefore, traffic for Eastern and/or Fourth/Fifth-area Regions can be listed simply as out-of-state.

3. On FMTN things are a little different. Here you list out-of-state traffic for Region Four as Fourth Region, and traffic for the First, Second, Third, Eighth and Eleventh (Eastern Canada) Regions are listed as Eastern and all other out-of-state traffic west of these regions are listed as RN5.

4. For the FAST Net early session you can list traffic as out-of-state because it usually goes to the QFN Cable Wireless Net. For the late session you can list as Fourth/RN5 or Eastern, whichever it is as it could go to FPTN the next morning or one of the other representatives, depending on who checks in.

Then Dick said, "for cable wireless nets it can vary" so I told him, "tell me the rest of the story later." Wow!

At the Tampa Hamfest, Bill, K4ZK, pointed out the large number of messages coming through with incorrect check digits. He mentioned that he received about eight messages one evening and all but one had incorrect message checks.

He as well as other traffic handlers rightly pointed out that we must verify the count before we QSL because once we do we are responsible for its accuracy. I know we expect the originator to give it a correct check amount, but they sometimes don't. Additionally, after relays it can sometimes get messed up.

I hope everyone has a very merry Christmas and the best for the coming New Year.

— 73's folks,
Joe, N4KFU

From Earl, WX4J, TPTN Net Manager: November's state showed an increase in all areas. That's a sure sign that the winter season is really here.

A couple of our Miami stations, AA4CH and W4DWN, are having rig problems. Hope they return soon and sure hope its not a virus.

Frank, W3AVZ, assumed the Friday NCS duties and Charlie took the Tuesday slot. Many thanks fellas!

Elmer, KA4NXF, did another tour in the hospital for a hip replacement and by press-time was back on the nets. What determination! You just can't keep a good guy down.

Welcome back to Dick, K4GMX and Lee, KB4FBX. The net also welcomes Nils, WA4NDA and Russ, WB9GIU. It was good to hear W4TAH in Sarasota and K4CY in Brooksville checking in more often.

Net certificates were awarded to Helen, WB0HOX and Monroe, KB4FIY. Congratulations folks!

Everyone have a great holiday. See you on the net.

— 73's
Earl, WX4J

From Carl, W4NFK, FMTN Net Manager: No report received this month.

From Earl, K4FQU, SWFTN Net Manager: November and Thanksgiving have gone by and that means Xmas is not far away. I hope you all had a nice Thanksgiving and are looking forward to Xmas dinner.

November was a bang up month. We didn't break any records, but came close. We had 516 pieces of traffic as compared to 521 in December 1989. However, in November 1986 we had only 207 pieces of traffic. QNI went up, but the record was set with 1,323 recorded in January 1986. The end result was a good job, so special thanks to all those who brought the traffic to SWFTN.

Winter visitors are returning and are helping out. So we certainly appreciate that and welcome their return.

December should generate a flood of traffic, so all of our training during the year should do us well.

Everyone is reminded that relatives and friends would appreciate an ARL 60 Xmas message, so don't forget to send one.

Merry Christmas to all, and hopefully Santa will place a new rig under the tree.

— 73's
Earl, K4FQU

From Bill, WB4WYG, FPTN Net Manager: As 1990 comes to an end it was interesting to view the net stats for the 11-month period.

Average traffic was 364 per month with November showing 437, a 20 percent gain. Daily check-ins averaged 43.09 for the year. Fifty-one stations checked in over 80 percent of net sessions. Everyone can be proud of this stat considering the net meets at 7:00 a.m.

During November the following stations checked in 100 percent of net sessions: W4BKC, KI4CQ, WA4EIC, K4EJW, WD4IUD, WA9VND, KB4WCX and WB4ZVD.

These stations represent 29.4 percent of the roster. Many thanks to these faithful stations.

Cef, AA4CH, has rig trouble and has been off the air for a while. Miss Helen, WB0HOX, had her antenna blown down, but by press-time had it back up.

Hi, W4IAD, is off to Connecticut and Miss Evelyn, W4WYR, went traveling to the Midwest.

Everyone have a great holiday season and come join the net at 7:00 a.m. every day on 3940 KHz. "We have fun while gettin' it done."

— 73's
Bill, WB4WYG

AIN Net by Joe, N4KFU: Miss Evelyn announced that W1AW would move frequencies to 28.0675 and 21.0675 on January 1, 1991. She said that the Perry Williams Report recommended enforcement action from the FCC.

She felt that what we will see is probably no new regulations, but enforcement of what we already have. She also said that 25 ships holding licenses were fined for operating on unauthorized frequencies and frequencies allocated to other services. There were other various fines such as operating pirate stations.

She said that she would be going to St. Louis for a Membership Committee meeting.

Swede, W4TAH, feels that with the increase in licensees more interference will occur due to overcrowding which means more difficulties for traffic nets.

Rudy, WA4PUP, announced that a bill regarding antenna structures in support of PRB1 will be coming before the Florida State Legislature. Hopefully, this bill will pass and asked all amateurs to give it support by responding to their representatives in Tallahassee.

W4TAH, also suggested that amateurs get their clubs to respond and messages to that affect were widely distributed by packet and other means.

Dick, WA4PFK, said that the Suncoast Hamfest was great and at the Traffic Handlers Forum there was much discussion regarding message checks. He said that 25 to 30 traffic handlers showed up at the traffic handlers breakfast on Sunday.

— 73's,
Joe, N4KFU

NORTHERN FLORIDA PHONE NET

By Manager Nils A. Millergren, WA4NDA

If you missed the Lake County Hamfest, you really missed a treat. Congratulations to those who organized it and to Howard, W7YWF, who sold 110-plus tables.

NFPN had a meeting during the first day and it was very informative. Those present were: Howard, W7YWF; Cotton, KB9LT; Lucky, K4EBO; Bob W0HTO; Tom, N4CYV; Dot, KA4HHE; Thelma, N9BRE; Woody, KA4ZPO and XYL, May; Debbie, N4YWC; Steve, WB2CKM; Will, AA4CU; Jo, N4JSX; Earl, WX4J; Bonnie, N4EWF; Ken, N4EWB; Ed, WA4GCF; and Nils, WA4NDA. It was such a pleasure eyeballing those you've talked with for so many years, but had never met. The only ones missing was you. Wish you could have made it.

Roses for this month goes to Bob, KB4WEC. He is very much active in getting messages to and from those involved in the "Gulf crisis." Great going to you, Bob and so many other hams involved. You make your fellow hams very proud.

We have another NCS that is getting some experience and that is Ken, N4WMS. You are doing great Ken and we really appreicate you. We have others that will be getting their feet wet in the near future so hang in there you may be next.

We have such a great staff of NCS's, and faithful may I add, that it's not often that an alternate NCS gets the chance. Hey, I'm not complaining, I'm super proud of our regulars. They're the best.

Being the Net Manager, you regulars make my job the easiest of any Net Manager that I know of. You are the ones that keep the net going and I'm very knowledgeable of this. Thanks to you all.

We continue to grow, so that shows we must be doing something right. I checked the time it took from the preamble till the last piece of traffic was assigned and according to my figures, we are as proficient as any of the four nets I check into. I'm taking into consideration the number of pieces of traffic being handled. Thanks NCS's, you are the ones, along with all net members, that get the credit.

The statistics for this month is: 30 sessions — stations 2,387, average 79.57 — traffic 416, average 13.87 — time 1,712 minutes, average 57.06 minutes.

Net Liaisons are: TPTN, FAST, QFN, GCVTN, SVTN and LSTTN.

F.C.C. OKAY'S NO-CODE AND WAIVER FOR HANDICAPPED

By Bob Sherin, W4ASX, Miami

Amid fresh calls for open and robust debate from the newest FCC Commissioner, Democrat Ervin S. Duggan (please see cover story "Crosswind at the Top"), the five Commissioners voted unanimously on December 13th in favor of a no-code technician license and a waiver on code for the handicapped.

Private Radio Bureau Staffer Bill Cross explained to the Commission the two dockets upon which 1,100 comments were received: "90-356 exempts from the higher speed code exam persons who because of severe handicaps are incapable of passing those examinations. We would rely upon a physicians certification of disability to determine eligibility of an applicant. The second item, a report in order on docket number 90-55 establishes a codeless amateur operator license class by eliminating the code requirement for technician operators license."

Commissioner Duggan expressed a sensitivity to the plight of the handicapped: "There was some fear in my office when this whole process began that we might be leaning over too far backwards to relax our standards and that in the process of trying to seem compassionate and responsive to the special needs of handicapped people, that we would in fact go too far and rob handicapped people of the pride they might otherwise have in being able to meet tough standards. I think in the process of reviewing this item, you have succeeded in removing that concern."

Private Radio Bureau Chief Ralph A. Haller, N4RH, and FCC Chairman Alfred Sikes, exphasized that opening ham radio to a wider audience is crucial to its growth: to keep the United States at the forefront of communications research and development and to recruit new technically-oriented people into the amateur service.

D.X. COLUMN FOR JANUARY • THE MIAMI HAMFEST

By Tom Lewis, N4TL

The Miami Hamfest will soon be here.

1990 has been a good year for working new countries on the DXCC list.

If you are like this writer, you have QSL cards to be checked by the ARRL. If you do, you can bring them to the Miami Hamfest. Don Search, who runs the DXCC desk at the ARRL, comes to the hamfest every year. He will check endorsements for DXCC at the D.X. booth.

Don will check the QSL cards and compare them with your filled-out endorsement application. The cards are returned to you at the hamfest and in a few months you will receive credit for the cards in the mail.

Please note, Don only does endorsements at the hamfest. You will have to mail in your cards if you are making a new application for DXCC or have a five-band DXCC application.

Stop by the D.X. booth even if you don't have any QSL cards and say hi. Those of us who are members of the South Florida D.X. Association like to meet hams who are interested in working D.X.

The voice D.X. repeater in the Ft. Lauderdale-Miami area is on 147.33 MHz (up 600). The South Florida D.X. Association also runs a D.X. Packet Cluster on 145.59 MHz.

If you are interested in this, stop by the booth for some information.

MAILING LABEL READ THE TOP LINE

Your address (the top line) shows your Skip expiration date. If we don't receive your renewal fee by the 18th of that month the computer automatically kicks your address out on the next mailing and you will not receive any future issues.

We can't afford to send back issues. It cost us about 85¢ to send one copy (copy, postage and handling). So please send your renewals promptly.

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Ticket and Table requests received after 2-16-91 will be held at gate

NO REFUNDS

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Hamfest Chairman
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FLORIDA CABLE WIRELESS NETS

By Ed, K4IA

QFN Manager Rip, AA4HT Writes: November was a great month for QFN. Total traffic count increased by 897 from the 562 we had in October. That is a 60 percent increase.

Many thanks to the stations that volunteer to help out with the traffic going to 4RN. Several nights we sent three stations to 4RN. Hopefully, we will have the same success during the Christmas rush getting volunteers to take traffic to and from the region nets.

W4MEE, Doug, was able to QNI 100 percent on early session and three stations were able to check in 100 percent on late session. They were: WA4EIC, Blaine; KA4FZI, Miss Phil; and WA4PFK, Dick.

It surely is good to have some more new stations joining us on QFN. KK4UJ, Rich in Jacksonville, and N4UAV, Bess, in Brooksville have been jumping in recently. Also nice to have WN4IIV, Bob and W3QQ, Cid, rejoining us again after a long absence.

I want to wish each of you a very merry Christmas and a happy New Yea. I also want to thank you for your help during the heavy traffic handled during Thanksgiving and Christmas.

See you on QFN. We meet daily at seveh and 10 local time on 3651 KHz.

—73,
Rip, AA4HT

Gator Net Notes by Manager Doug, W4MEE: The November QNI 253, average 8.4. QTC 227, average 7.5 and QTC/QNI 8.9 in 30 sessions. We had 23 different stations check in during November.

Bill, W3TLV of Margate had no QNI this month as he is taking a rest from ham radi. KY4U, Mark of Merritt Island, one of the old-timers on Gator Net is back again. N4EKC, although a little under the weather is joining the group.

Andy, W4IYT, publisher of **Florida Skip**, George, N4JI and I had a very enjoyable eyeball QSO at the Broward Hamfest — all Gator Net regualrs.

Gator Net meets every morning at 0830 local time on 7068 KHz. See you there, bright and early.

—73,
Doug, W4MEE

FMSN Reported by Manager Joe, N4KFU: Traffic increased as expected during the month of November. One hundred and sixty-nine pieces were handled which represents a 10 percent gain over October. QNI's went up slightly and that is good. The net's primary purpose is to pass traffic and those stats are the most important. However it is great to see such good participation and this statistic is also important.

Elmer, KA4NXF was in the hospital for a short stay. He is improving and it was great to hear him back on FMSN.

I'm still working on Bill, WB4WYG, to return as an NCS.

Many net members attended the FMSN luncheon while at the Tampa Hamfest. Hopefully, we can make this an annual affair so we can eyeball each other and have fun. In addition to FMSN members quite a few traffic handlers showed up with over 20 present. We thank Frank, N4EUK, for making the luncheon arrangements.

Bees, N4UAV suggested that net members who utilize packet advise me of their BBS packet routing call-sign to add to the FMSN Roster. I think that is a good idea so I would appreciate net members sending me a message advising of their packet routing.

"Whats this round shiney thing, Grandpa " says Alex Quintana grandson of Harry Barnes, N4LAO of Panama City. Harry can be heard often on the FMSN, NFPN and QFNS traffic nets. (Photo by XYL Marian Barnes.)

The net salutes OB, WC4D, who checked in 29 of 30 sessions. Other stations checking in over 20 times were: WA9VND, AA4BN, AA4FG, AA4HT and N4UAV.

Many thanks to Laura, WA9VND, who is taking both her NCS turn and covering on another night. Also thanks to Fred, AA4FG, who is our mainstay for TPTN liaison. The NCS and liaison stations did a great job during the Thanksgiving holiday so we can feel good with the "big one" (Christmas) coming up.

The FMSN Newsletter should be out by the time this is published, so if anyone is missed and desires a copy, just send me a message, etc.

Everyone have a great Holiday Season and if you would like to try some cable wireless traffic handling the slow and easy way, just tune up on 3651 at 1730 local time on any day. You don't have to be a whiz or know-how, just check in and we'll help you along. Until I hear your DAH DITS.

—73,
Joe, N4KFU

QFNS Notes by Manager John, KC4FL: Traffic for November was 221 stations averaging 7.3 per session with 76 messages averaging 2.5 in 646 minutes for the 30 sessions. It is evident that we can handle more messages than that. These figures are down about 10 percent from last month. This is contrary to the trend for November.

High volume stations are: WA4PFK, KA4FZI, WC4D, WA9VND, N4IWO, KB9LT and N4LAO.

As we have liaison with QFN, bring us some of your traffic for forwarding. Propagation conditions have been good this past month.

See you on QFNS meeting nightly at 8:00 p.m. on 3715 KHz.

—73,
John, KC4FL

In thinking about the past few years as a message handler, I am impressed by the progress we have been making among the Florida Nets. The abundance of seasoned operators on the slower speed nets is an indicator of their dedication to training. And the results are showing.

Have you noticed the progress being made by the newcomers who have taken assignments?

We can all strive to improve our technique and continue this strong and effective segment of amateur radio. Here's to 1991.

—73,
Ed, K4IA

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AEA's IsoLoop™ HF ANTENNA

REVOLUTIONARY COMPACT DESIGN

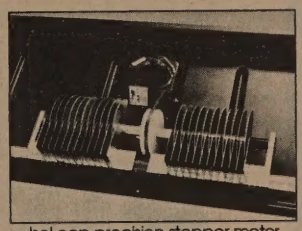
Once again AEA has achieved a significant engineering breakthrough with its high-performance, low profile HF IsoLoop antenna. Performance isn't compromised by its small size. Operate your favorite HF band (14 to 30 MHz frequency coverage) from areas with restrictive zoning ordinances or apartments and condos. Or take it with you on vacation. . . it's the ideal go-anywhere portable antenna. And it's the only antenna you need to cover 14 to 30 MHz. ONE antenna instead of numerous dipoles and without any traps!

150 Watts. Rated up to 150 watts, the IsoLoop transmits and receives on any frequency between 14 to 30 MHz. When mounted with the loop in the horizontal plane, the radiation pattern is omni-directional and horizontally polarized, with the gain of a dipole. Maximum radiation is at low angles which is ideal for DX operation. The IsoLoop may also be mounted with the loop in the vertical plane to provide a null in a desired direction. Tuning is provided by a precision stepper-motor and a small remote control box, the LC-1.

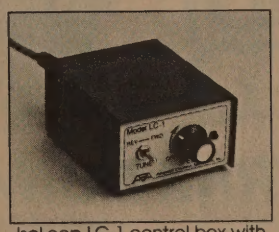
The IsoLoop does not need ground radials and its balanced, shielded feed-loop isolates the feedline from the antenna. The IsoLoop is well-isolated from the feedline. Like AEA's Isopole antennas, your signal is radiated by the antenna and not the feedline. With end-fed antennas, the outside of the coax becomes part of the antenna, resulting in noise and computer hash pickup and increased TVI problems.

High-Q Design. One of the unique features of the IsoLoop is its inherent High-Q. The IsoLoop can be considered a very sharp tunable filter that radiates. The narrow bandwidth suppresses harmonics from your transmitter reducing TVI problems. It also attenuates out-of-band signals from nearby transmitters that could overload your receiver.

Compact. The IsoLoop is square, with rounded corners, and measures 32 inches on a side and weighs only 12 pounds. Because of the IsoLoop's small size, it makes a perfect attic or balcony antenna. It's also excellent for portable operation, recreational vehicles or camp-site use. A rotator is not necessary when used in the omni-directional, horizontally polarized mode.



IsoLoop precision stepper motor provides accurate tuning.



IsoLoop LC-1 control box with variable speed tuning.

Revolutionary. The AEA IsoLoop antenna represents years of research and development. Others may try to imitate the IsoLoop, but none can match the patent-pending design.

AEA also provides technical support from the factory or through your personal computer and modem on CompuServe's HamNet. If you are already a CompuServe member, just type GO HAMNET at any CompuServe prompt. For a free introductory CompuServe membership, call 1-800-848-8199 and ask for representative #48.

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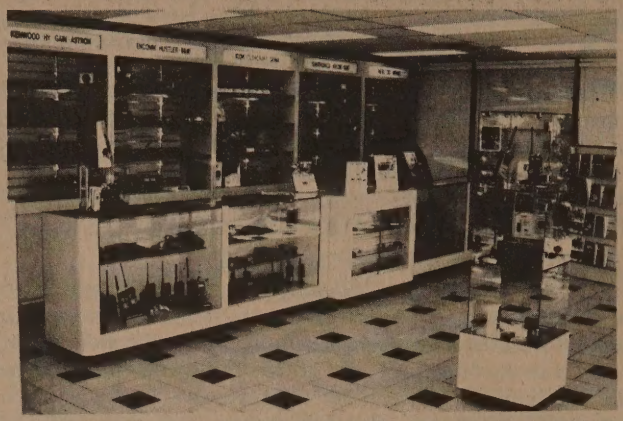

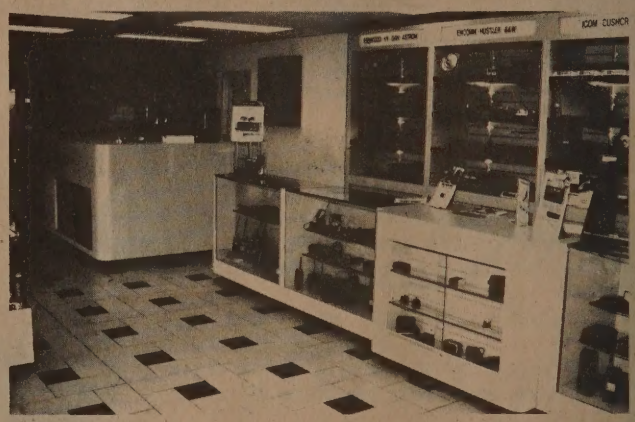

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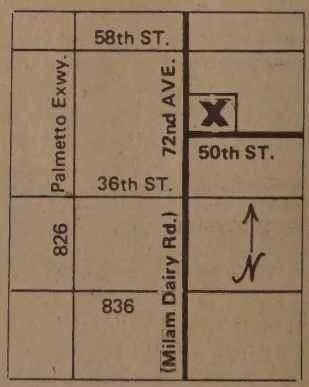

QCWA, Inc.

FLORIDA Q.C.W.A. NEWS
Edited by Eli Nannis, K4JMH

FLORIDA STATE Q.C.W.A. NEWS
Edited by Eli Nannis

How about checking into the National QCWA Phone Net on Sundays on 20 meters 14347 KHz at 2000 hours UTC. There is always interesting information on this net which you may not hear about until the QCWA Journal is received.

Herb Gleed, W6FG, has been running the net for the past 22 years. Attendance has gone as high as 110 and he has a big signal. Due to health reasons, he has taken off for a while.

The 40-meter cable wireless net operates every Wednesday evening at 8:00 p.m. with W5QU and W4PI sharing net control. The frequency is 7035 KHz. The Florida State net is on 3955 KHz, Saturdays at 8:00 a.m.

On page 17 of the December issue of **Florida Skip**, is the start of the QCWA Directory. If your chapter is not on this list, send it to me as soon as possible.

I want to thank you all for the many "get well" cards that I received during my recent illness.

CENTRAL FLORIDA CHAPTER

John Spark, W4LHP, is recovering nicely from his heart surgery and will return for another term as chapter president in 1991. Lou Porter, K4OVQ, will be vice-president; Jay Hitchcock, K8YGH, secretary; and Frank Mason, W4TIC, treasurer.

K4OVQ and XYL Rose, KC4OYI, are new QCWA members and we welcome them to our chapter.

Thanks to the 1990 officers for a job well done.

At year-end, it is in order to pray for the "silent keys" of our chapter. They are: George Lovelace, N4UMV; Jack Bricker, N4MB; Bob Lindsey, W4IMF; Don Crawford, W4LFY; Mark Hanna, W4HS; Bob Wahlstrom, K4UY; Floyd Woolum, W4FTH; Wes Edmonds, W4TPA; Wayne Chapman, W8TKR; and Bob Webb, W4NY. May they rest in peace.

Best wishes to all for a happy and healthy New Year.

— Reported by
Jim Gundry, W4JM

PALM BEACH CHAPTER

Our monthly meeting was held in the Prosperity Oaks Dining Room on October 30th. A total of 34 members and guests were present.

The chapter held their yearly election of officers at the October meeting. The 1991 officers are: President Charles Newell, K2GNZ; Vice-President Robert McDow, W4KOG; and Secretary/Treasurer Walter Reitz, K4JCA. We wish to thank the outgoing officers, welcome the new and wish them well for the coming year.

The speaker for the meeting was Mr. Perry Easter of the Southern Bell Telephone Company. He gave a very informative talk on the use of fiber optics as a replacement for the old copper wires used in the telephone system. Fiber optics twisted, can handle almost 3,000 calls simultaneously.

The next meeting will be at the same place on November 27th. Please come and bring a friend.

— Reported by
Bob McDow, W4KOG

CALL KENWOOD

Kenwood USA has installed a new toll-free service for amateurs requesting parts. The new number is exclusively for Kenwood amateur radio parts and is designed to make their purchase as easy as possible. The number is (800) 637-0388 and operates 9:00 a.m. to 6:30 p.m. EST Monday through Friday with payment options that include Visa, MasterCard, cash, check or certified funds.

— From Westlink Report

A well known CW and SSB traffic man on our Florida nets is Harris Winston WA4JDH of Elba, Ala. Charlie Humber Wa4EYU of Jax snapped his while visiting 'Jawn Dog Henry" while on vacation last June. Thanks Chas...AC

HOW TO WORK WA4SIR AND NOT BOTHER PACKET
By Burt Hicks, WB6MQV

Since the amateur two-meterr band is very crowded in many locations worldwide and there is the potential of interference between stations attempting to work WA4SIR on "Columbia" and those on the same or adjacent channels in terrestrial service, AMSAT strongly recommends the following operating practices, particularly for packet operators:

1. Do not call WA4SIR until you actually copy packets (or his voice downlink) from him. Do not call when he is talking to someone else. Cease all transmissions at Loss of Signal (LOS).
2. Use a directional antenna aimed at the space craft and away from any known packet node, DX cluster node or repeater using 144.95 MHz as an input or output in your area.
3. Terrestrial activity in your area on 144.95 is likely to be vertically polarized. Use of horizontal polarization to call WA4SIR will reduce co-channel interference considerably; circular polarization can reduce it by up to 3db. Tnx AMSAT-NA.

— From Westlink Report

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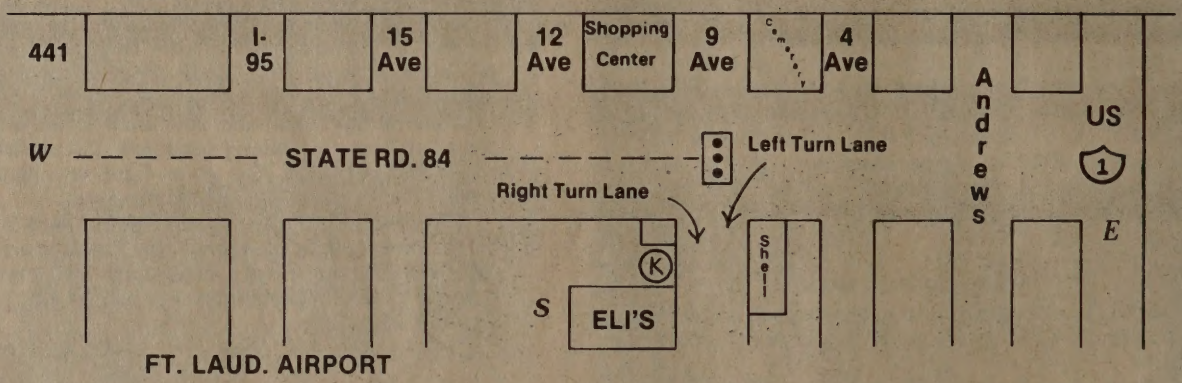

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HEAVIEST ELEMENT DISCOVERED

Submitted by Frank, WB4BBH

The heaviest element known to science was recently discovered at the Lawrence Livermore National Laboratory. The element, tentatively named Administratium (Ad), has no protons or electrons, thus it has atomic number zero.

It does, however, have one neutron, 75 associate neutrons and 125 deputy neutrons. This gives it an atomic mass of 312.

The 312 particles are held together in the nucleus by a force that involves the continuous exchange of meson-like particles called memos.

Because it has no electrons, Administratium is inert. Nevertheless, it can be detected chemically, because it seems to impede every reaction in which it takes part.

According to Dr. M. Languor, one of the discoverers of the element, a very small amount of Administratium made one reaction, that normally takes less than a second, take more than four days to go to completion.

Administratium has a half-life of approximately three years. At the end of this time it does not actually decay. Instead, it undergoes an internal reorganization in which the associates to the neutron, deputy associates to the neutron and assistant deputy associate neutrons, all exchange places.

Some studies indicate that the atomic mass actually increases after each reorganization.

— From Hot-Aire, Monterey, California, Chapter Bulletin, Don Sprouse, Editor

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IT HAPPENED LONG AGO

By Harry Dukas, KI4GH

January 10th	Florida secedes from Union, 1861.
January 15th	First horse race at Hialeah Park, 1925.
January 19th	Snow in Miami, 1977.
January 24th	First beer in cans sold, 1935.
January 25th	Al Capone dies in Miami, 1947.
February 15th	Battleship Maine blow up in Havana Harbor, 1898.

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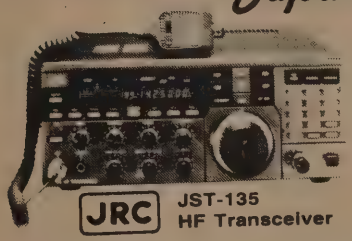

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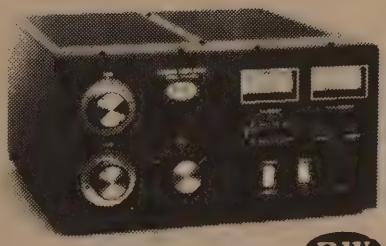

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AMATEUR RADIO AND COMPUTER SHOW
ARRL SOUTHEASTERN DIVISION CONVENTION

MIAMI, FLORIDA **FEBRUARY 2-3, 1991**

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Telephone: (305) 223-7060

HOURS:
Saturday, 9 a.m. to 5 p.m.
Sunday, 9 a.m. to 4 p.m.

REGISTRATION

$5.00 Advance (deadline January 21st)
$6.00 After January 21st
(Tickets are valid for two days entrance.)

All persons attending Hamboree are required to have registration tickets. Children under 12 free when accompanied by a registered adult.

COMPLIMENTARY STUDENT TICKETS

Available in bulk for students 18 years and under. Tickets are distributed through class instructors who should contact Hamboree Chairman with their ticket requirements.

SWAP SHOP TABLES

$20.00 per Table (covers both days of show)
Power: $10.00 per User
Table Size: 8 Feet by 24 Inches

All persons reserving swap tables must have a registration ticket for each person attending. Swap Shop move-in hours, regulations, parking permits, identifications, etc., will be forwarded by Swap Shop Chairman with your reservation acknowledgement. Swap Shop table holders enter premises via Gate 2 on Southwest 24th Street. **Table cancellation policy: table cancellations received on/or before January 15, 1991, will receive full refund of deposits. Cancellations received after January 15th will be assessed 50 percent of full amount due.**

HEADQUARTERS HOTEL

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Rates:
$65.00 For Single or Double
$10.00 For Each Additional Person

You may call in reservation direct to hotel (number above). Speak **only** to the Reservation Department and mention **Tropical Hamboree** to guarantee special rate. Reservations received after January 19th will be accommodated on a space-available basis. Rates are subject to an 11 percent tax.
Courtesy vans will be running between the hotel and the Hamboree site continuously.
Forms for registration tickets, swap tables, campground sites and hotel reservations are in this brochure for your convenience.

Presented By **Dade Radio Club, Inc.**
Chairman, Evelyn Gauzens, W4WYR
2780 N.W. 3rd Street, Miami, FL 33125
Telephone: (305) 642-4139 • Fax: (305) 642-1648

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146.325/925 . . . 224.900 . . . 442.350. Check other Miami frequencies listed in the ARRL Repeater Directory . . . **all** Dade County hams are ready to assist you.

HAMBOREE CAMPGROUND

$40.00 for Friday, Saturday and Sunday Nights
$15.00 Additional for Thursday Night

No one- or two-day campsites available. Campsites will be pre-assigned according to length of unit and requirements of occupant. Spaces have been set aside for handicapped and the appropriate box should be checked on the Reservation Form. Check-in times: Thursday . . . noon, Friday . . . 9:30 a.m. to 9:00 p.m., Saturday . . . 9:00 a.m. to 9:00 p.m. No check-in after 9:00 p.m. any night. Check-out time: Monday . . . noon. Electric hook-ups can be as far away as 100 feet from site. You should bring extension cords. Most campsites have sanitary hook-ups, however some may require a long dump connection. Pay laundry available for campers. Showers and sanitary facilities are available for units without built-ins. We will appreciate it if use of these facilities are limited to those without hook-ups. Gate 2 on Southwest 24th Street will be open for admission of campers for check-in and will be left open all night on Friday and Saturday for the convenience of those wishing to go out for dinner or sightseeing.

AMATEUR RADIO LICENSE EXAMS

Exams will be given on Sunday, February 3rd, for all classes of license. Exams will be conducted at Dade County EOC, 5600 S.W. 87th Avenue. No pre-registration required. **All persons wishing to take exams should be at Dade County EOC by 9:00 a.m.** in order for examiners to complete paperwork and collect examination fee prior to beginning testing. Exams will begin at 10:00 a.m. and continue until all applicants have had an opportunity to complete exams. You are required to bring proper identification and, if upgrading to higher class of license, original copy of current license.
Do not call or write to Dade County EOC regarding license exams. All inquiries should be sent to Hamboree Chairman.

HANDICAPPED PARKING

Enter Gate 3 on Southwest 24th Street and proceed to north side of chainlink fence for parking instructions. Please obtain a Hamboree Handicapped Parking Permit (in addition to your State sticker) from the Hamboree Chairman as it is more visible to our Hamboree workers. Thank you.

CHARTER BUS GROUPS

Enter premises via Gate 2 on Southwest 24th Street. Check with Campground Committee for parking instructions. Please notify Hamboree Chairman in advance so parking attendants will be expecting you. We will be happy to handle bulk ticket orders for your group's convenience and postage savings.

ARRL LEGAL SEMINAR

"Land-Use Regulations of Communications Facilities for the Layman: A Short Course in Federal Pre-emption"

Saturday, February 2, 1991

This three-hour seminar will analyze several areas of local, private and governmental restriction of radio communications facilities and radio antenna systems and the limits of municipal and state jurisdiction. The goal of the seminar is to assist the individual in properly addressing local regulation of communications facilities licensed or controlled by the Federal Communications Commission. The principles and precedents discussed in the seminar will apply to the development of favorable municipal zoning ordinance and building restrictions in private developments; defense of individual nuisance actions against radio operators and the prosecution and defense of civil actions by amateur radio operators or satellite dish owners in order to obtain permits or homeowner's association approval for antenna facilities.

The faculty of the seminar includes communications law practitioners and attorneys experienced in land-use regulation and litigation affecting maintenance and operation of federally-regulated communications facilities.

Christopher D. Imlay, Esquire, Moderator, Washington, District of Columbia

Wayne Overbeck, Esquire, Tustin, California
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ARRL EDUCATIONAL WORKSHOP

Friday, February 1, 1991

Amateur radio recruiters, volunteer evening instructors and school teachers looking for innovative ideas for teaching geography, language arts, computer science, physics, electricity and social studies, will want to attend an ARRL Educational Workshop on February 1st. The free workshop, to be held the day before the Miami Tropical Hamboree/ARRL Southeastern Division Convention at the Miami Airport Marriott Hotel — 1201 N.W. LeJeune Road — begins at noon and lasts until 5:00 p.m. Teachers who attend for the entire five-hour program will earn .5 Continuing Education Units. Speakers scheduled at this time include:

Phyllisan West, KA4FZI, Cape Coral, Florida
Joel Kandel, KI4T, Miami, Florida
Harry Pilafian, W4SQG, Miami, Florida
Tom Middleton, WB4CKY, Miami, Florida
Doug Loughmiller, KO5I, Brookston, Texas
Rosalie White, WA1STO, Newington, Connecticut
Audrey Pilafian, KB4ZQU, Miami, Florida
Barbara Rothstein, WA4WHD, Hollywood, Florida

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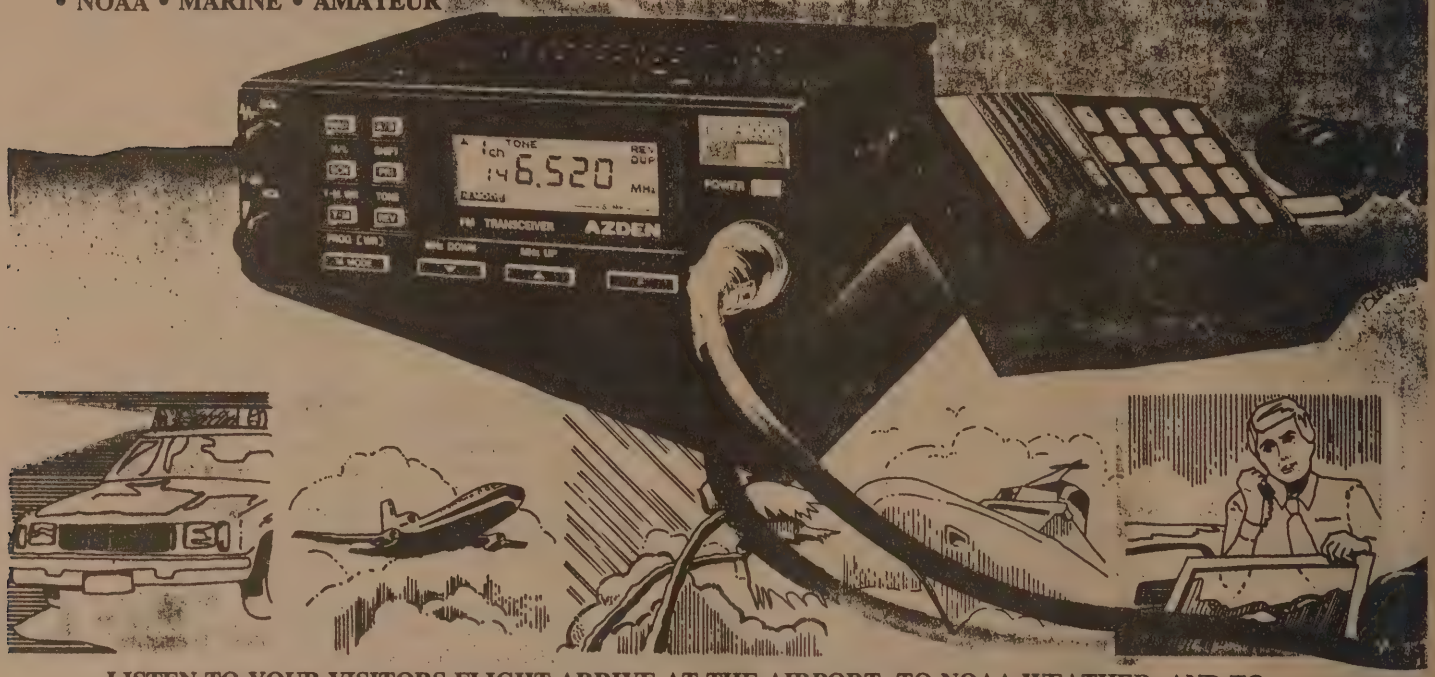

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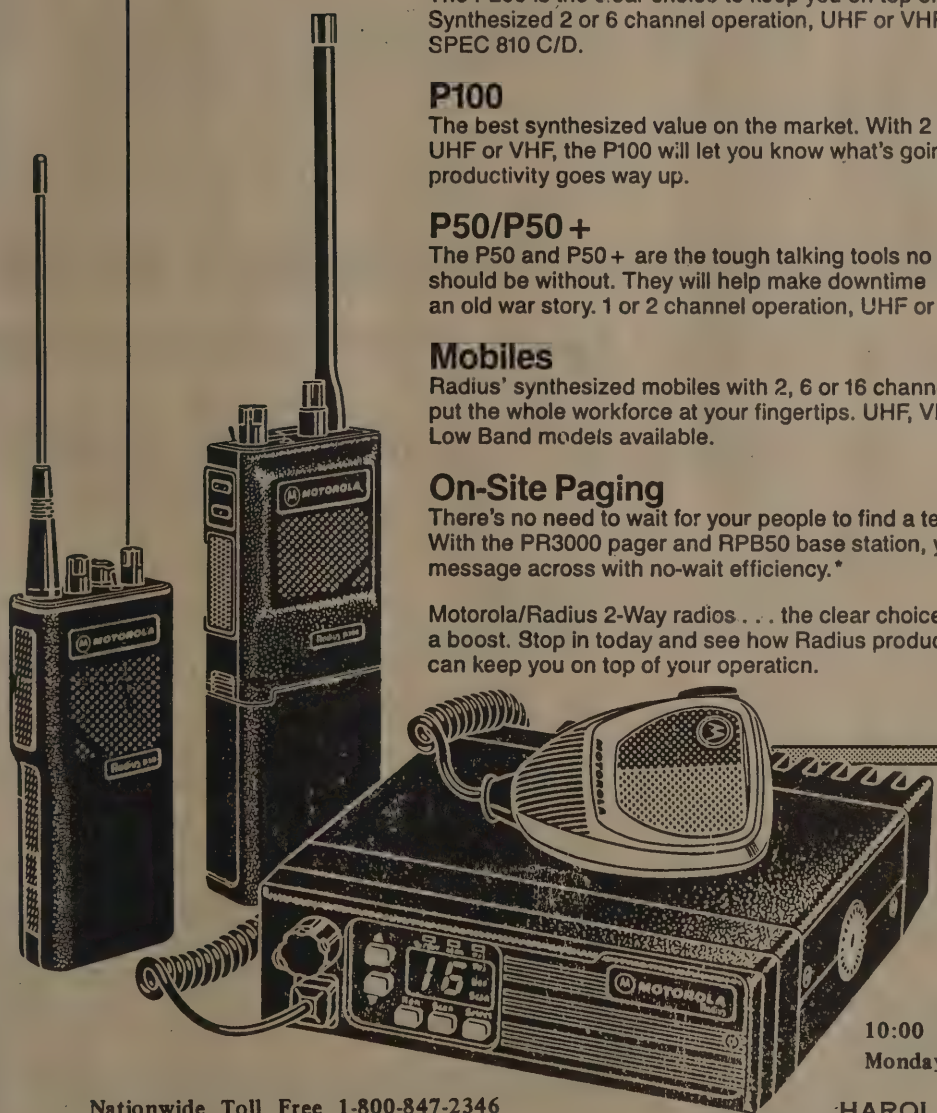

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PALM BEACH CHAPTER

The Palm Beach Chapter meets at the Prosperity Oaks Dining Room on Prosperity Farms Road, south of PGA Boulevard at 12:00 noon on the last Tuesday of each month.

For information contact: Bob McDow,W4KOG at (407)848-2352.

GATOR CHAPTER

The Gator Chapter meets the first Saturday of each month at Stacey's Buffet on Missouri Avenue, Midway Shopping Center, Clearwater at 11:30 a.m.

For more information contact: Eli Nannis, K4JMH at (813) 595-3111 or at 14996 Imperial Point Drive, North, Largo, Florida 34644.

CENTRAL FLORIDA CHAPTER

The Central Florida Chapter meets all year-round at the Sizzler Steakhouse, 3105 U.S. Highway 98 North, near I-4, Lakeland, Florida. They meet the third Saturday of each month at 11:30 a.m.

For more information contact: Frank La Londe, W4PBL, 3840 Charter Road, Lakeland, Florida 33809 or phone him at (813) 858-8346.

PELICAN CHAPTER

The Pelican Chapter meets the third Wednesday of each month at Stacey's Buffet on 34th Street North, St. Petersburg, near Third Avenue, North. The time is 11:30 a.m.

For more information contact: Paul Turner, W1DLP, 109 Pindo Palm West, Largo, Florida 34640 or phone him at (813) 585-9830.

SOUTHEAST FLORIDA CHAPTER

The Southeast Florida Chapter meets at the Denny's Restaurant, 7411 S.W. 36th Street, Miami, Florida the third Saturday, every month at noon.

For more information contact: Herb Bernard, W4JXA, 1641 S.W. 92nd Place, Miami, Florida 33155 or phone him at (305) 264-8807. You can also contact: Art Rauch, W4VZ, 10959 S.W. 105th Avenue, Miami, Florida 33176 or phone him at (305) 274-9709.

FLORIDA STATE Q.C.W.A. NET

The Florida State QCWA Net meets every Sunday morning at 8:00 a.m. on 3955 KHz.

SUNCOAST CHAPTER

The Suncoast Chapter meets the first Thursday of the month, October through May at the House of Chong on the west side of Route 41 — just south of the junction of Route 72 — at 11:30 a.m.

For inforamtion contact: Bob Bookwalter, W4NWF, at (813) 485-7928.

Please recycle this newspaper.

F.C.C. INFORMATION PAGE

AUBURNDALE AREA

W5YI exams, technical through extra, are to be held on the third Saturday of each month starting at 9:00 a.m. They will be held in the First Presbyterian Church on 410 Pilaklakaha Avenue (PK Avenue), Auburndale, Florida. Between Winter Haven and Lakeland on Highway 92. Turn off 92nd on Ariana Avenue, go two stop signs and turn left on PK Avenue. It's the second building on right.

Walk-ins accepted on test available basis. Reservations requested. There is a fee of $4.95 for tech through extra.

For information contact: Pete Salvage at (813) 646-2526 or Bill Loop at (813) 967-5952.

BREVARD COUNTY

ARRL/VEC exams by Consolidated V.E.'s of Brevard County — Room Q-22 — Florida Institute of Technology — Melbourne — 10:00 a.m. (check-in 0930) — third Saturday of every month.

No pre-registration required. Form 610 provided. Bring original and photocopy of current license.

For information contact Victor Lau, N4FUY at (407) 768-0888.

BROWARD COUNTY

Ham license exams by W5YI are given on the first Sunday of every month at 9:00 a.m., in the North Broward Hospital's Education Deparment. North Broward Hospital is located at the intersection of I-95 and Sample Road in the northeast quadrant.

Please bring a copy of your FCC License, personal identification and the original copy of any exam credit certificate that you plan to use for upgrade eligibility.

Talk-in on 146.610 (–.600).

CAVEC exams by Racal-Milgo in Sunrise twice per month; on the first Saturday at 8:45 a.m. and on the third Thursday at 7:30 p.m. at 1601 N.W. 136th Avenue (North Harrison Parkway).

No pre-registration required.

Bring: the original and one copy of your license, the original of any credit certificate (or copy of FCC Form 610 for novice credit), proof of identity (driver's license with photo, etc.) and $2 (except novice which is free).

For further information call: Chip Allen, AK4Y at his home at 476- 8761; or Joe Loewy, KB4FO either at his home 434-8211 or work 846-4567. For 24-hour recorded information call 846-4444.

Talk-in on 145.270 (Tx 600 KHz).

CITRUS COUNTY

License exams are scheduled for the third Saturday in the odd numbered months at 8:30 a.m. at the Citrus County Emergency Operations Center on West Southern Street in Lecanto. (West off C.R. 491, one-quarter mile north of S.R. 44.)

Reservations preferred, walk-ins accepted while supplies last. Bring original ham license and photocopy, certificates for prior exam credits if any, photo identification as driver's license, pen and pencils

Phone Cotton, KB9LT at (904) 344-8322 for reservations or further information.

Crestview:

FCC exams are given the second Saturday of each third month (February, May. August and November) at 9:00 a.m. at the Council on Aging Building, 298 South Wilson Street, Crestview, Florida. Fee is $4.00. Walk-ins welcome. Bring original and copy of license, and a photo identification. For more information contact Bill Pate, WB4ORK. Route 1, Box 189, Crestview, Florida; telephone (904) 682-0539.

DADE CITY AREA

The East Pasco Amateur Radio Society will conduct W5YI-VEC exams, technician through extra class (novice by reservation only due to time limitation), on the third Wednesday of each month (except December) at 602 East Meridian Avenue, in the Tampa Electric Company Conference Room (two blocks east of Highway 301), Dade City, Florida at 6:30 p.m.

Bring the original and a photocopy of your current license, photo identification and $4.75 fee.

We also conduct exams, by appointment, for those with special needs and whose schedules conflict with normal exam lessons.

Contact Ed Privette, AB4PY at (904) 583-4580; or George Mann, KJ4UW at (904) 567-6300 or (904) 567-9594.

DADE COUNTY AMATEUR RADIO EXAMINATIONS

Exams will be held at the Dade County Emergency Operations Center, 5600 S.W. 87th Avenue, Miami, Florida 33173, at 9:00 a.m. on the second Saturday of the month.

Walk-in exams on test available basis. Bring a photocopy of your current license, photo identification, pen and pencil and a $4.75 check payable to ARRL/VEC. FCC Form 610 available at exam.

For further information contact Tom Sherwood, AL7HW at 255-3170 after 5:00 p.m.

NORTH DADE — SOUTH BROWARD AREA

FCC exams are given on the fourth Thursday of each month by a W5YI-VEC team at 6:30 p.m. prior to the regular monthly meeting of the Fellowship Amateur Radio Club at Ingall's Park in Hallandale at 735 S.W. 1st Street.

No charge for novice . . . all others $4.95.

Bring the original of your license and a photocopy and positive identification.

For more information call Howard, N4EBT at 935-5214; or Norm, K4RBR at 823-5437 (evenings).

V.E.C. 1990 EXAM SCHEDULE

Fort Walton Beach:

ARRL/VEC exams by Playground ARC, are held quarterly at the clubhouse — 17 East First Street, Fort Walton Beach. The 1990 dates are March 10th, June 9th, September 8th and December 8th. Doors open at 8:30 a.m. Walk-ins are welcome. Fee is $4.95. For futher information contact Bill Hord, W4WIJ at (904) 243-9720; or Hal Byrd, WG4X at (904) 243-0882.

WEST PASCO COUNTY

The Suncoast Amateur Radio Club is sponsoring W5YI-VEC exam sessions on the fourth Tuesday of each month at 7:00 p.m. The exam location is the Pasco County Building, 530 Sunset Road, New Port Richey (just east of U.S. 19 one mile south of the Pithlachascotee River Bridge).

Pre-registration deadline is the Saturday preceding the exam date, thereafter, walk-ins will be accepted on a materials availability basis. Talk-in on 145.350 (Tx-600).

Remember, effective January 1st, the fee is $5.25 tech through extra exams.

For registration and/or information call Marv Borngraber, WC2G at (813) 938-7810.

HERNANDO COUNTY EXAMS

The Hernando Volunteer Examining Council (HERVEC) with Clover Leaf ARC and Spring Hill ARC co-sponsors are conducting monthly exams novice through extra, each third Wednesday of the month at 6:00 p.m. at Springfield High School in Spring Hill. The Clover Leaf Visitor's Center in Brooksville is the alternate exam site.

Walk-ins are welcome.

For information contact Paul Sauer, K4ZC at (904) 683-3167.

HIALEAH

W5YI coordinated tests — novice through extra, every third Saturday of month at 8 p.m. Due to space limitations pre-registration is encouraged. Fee is $4.95.

Contact Ivan Prada, KP4EDL at (305) 829-0602 from 7 to 9 p.m. for more information.

LAKE COUNTY/CENTRAL FLORIDA

FCC exams are given on the third Saturday in the odd numbered months at 9:30 a.m. The location is the Lake Amateur Radio Association Club house just west of Tavares, Florida. Go two miles west of Tavares, Florida, on Highway 441 to C.R. 473. North one mile on C.R. 473 to the Haines Creek Baptist Church. The clubhouse and 180-foot tower are behind the church.

Walk-ins permitted. Bring original ham license and photocopy, certificates for prior exam credits, positive identification and $4.95.

Talk-in on 147.255, K4FC repeater.

Contact Paul, K3NON at (904) 343-8729; or Millie, KQ4R at (904) 343-0075.

MARION COUNTY FLORIDA

Tests are given the second Monday of every second month (February, April, June, August, October and December) at 7:00 p.m. (sharp) . . . novice through extra. Walk-ins are welcome.

The location is the Green Clover Hall in the Marion County Government Complex off Route 40 on Ft. King and 25th Avenue in Ocala, Florida.

Bring $4.95 and a copy of license.

For more information call R. Brenner, KA4RWB at (904) 237-5783 or write to 5690 S.W. 36th Avenue, Ocala, Florida 32674 and send a SASE for a reply.

OCALA/CENTRAL FLORIDA

W5YI exams are held each month (except November and December) on the last Thursday, 7:30 p.m. at the St. Patrick's Episcopal Church, 2802 N.E. 7th Street, Ocala, Florida.

All exams, novice through extra, are given on a walk-in basis. Fee is $4.75. Novices are free. Talk-in is available on 145.130 repeater.

For information contact Jim, KA2MBE at (904) 236-0744; or Joe, KA4WJB at (904) 351-0985.

PALM BEACH

Palm Beach Amateur Radio Council and Palm Beach Community College Amateur Radio Club are giving amateur radio license tests the third Saturday of each month at 9:00 a.m. at Palm Beach Community College, 4200 Congress Avenue, Lake Worth, Florida, Criminal Justice Room 101, for $4.95.

Walk-ins permitted as long as we have test materials available.

Next tests are October 13th and 14th at hamfest at South Florida Fair Grounds on State Road 80.

For information call Graf Buckenmaier at (407) 582-7617.

PANAMA CITY, FLORIDA

Test date and time is January 12th, April 13th, July 13th and October 12th, 1991 at 10:00 CST. Walk-in time is 9:30 a.m.

The site is the Civil Defense Building, Main Conference Room, 644 Mulberry Avenue, Panama City, Florida.

No cash. Make checks payable to ARRL/VEC. No charge for novice. All other classes will be $5.25.

For information write Charles Hickman, 2402 West 21st Street, Panama City, Florida 32405 or phone (904) 785-0449.

BOCA RATON

The Siemens Amateur Radio Club sponsors ARRL/VEC coordinated exams the third Friday every month at 17:30 hours, except December which will be the second Friday. The tests will be given at the Spanish River High School, 5100 Jog Road, Room 8207, Boca Raton.

Pre-registration is recommended, but walk-ins are accepted if testing materials are available. Novice exams are free . . . all others are $4.96.

Bring a photo identification, your original license and a copy and the original and a copy of any CSCE's. All forms are provided.

Contact Ron Diego at (407) 994-7168 during business hours or (407) 487-1726 evenings and weekends for more information or to pre-register.

PENSACOLA

FCC exams are given the third Thursday of each month at 5:00 p.m. Location is the cafeteria of the West Palm Florida Hospital, on North Davis Highway.

For further information contact Rick Lloyd, AA4W; or Bill Behrends, WA4YRN.

PORT SAINT LUCIE AREA

Fort Pierce, Florida • Saint Lucie County

The Fort Pierce ARC is sponsoring ARRL/VEC's each month on the fourth Saturday, at the Saint Lucie Emergency Operations Center. Go west of I-95. Pass Highway 713 to Rock Road. It is on the right-hand side.

Register at 9:00 a.m. and the test will be given at 9:30 a.m.

Call Bill Shisler, W3DHN for information at (407) 466-5648.

DUNEDIN — TAMPA BAY AREA

W5YI-VEC coordinated amateur radio exams are conducted by the Dunedin ARC/VE testing team on the first Monday of every month. If the first Monday is a holiday, then the tests are held on the second Monday.

Testing begins at 7:00 p.m. in the Foreign Language Building, Number 99, Dunedin High School, 1615 Pinehurst Road, Dunedin.

Remember to bring with you, two forms of identification, originals and copies of your license and CSCE's if any and the $4.95 fee required for the tech through extra exams. Talk-in on 145.110 or 145.310 (Tx-600).

For registration and/or information call WC2G at (813) 938-7810 or W8RH at (813) 535-2034. Mailing address is: P.O. Box 1851, Dunedin, Florida 34697.

TAMPA EVENING TESTING

W5YI-VEC exams will be held the last Thursday of each month at 7:00 p.m. (except November and December). Sessions will be replaced by one date in early December due to holidays. (Phone for exact date during November.)

Testing location is the second floor of the American Red Cross Building, 217 North Howard Avenue, Tampa.

Novice exams are free. All others $4.75 cash. Bring with you the original and a photocopy of your current license and original and photocopies of CSCE's, if any.

To resolve questions or obtain holiday season dates contact Scott, KA4FRO at (813) 685-2514.

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INTERNATIONAL, INC.

MODEL 1500A

NEW

FREQUENCY COUNTER
1-1500 MHZ

$99.95

8 RED LED DIGITS
2 GATE TIMES 1PPM TCXO
ANODIZED ALUMINUM CABINET
INTERNAL NI-CAD BATTERY OPTION
FULL YEAR LIMITED WARRANTY

The 1500A FREQUENCY COUNTER is a quality built, LSI circuit design instrument that actually outperforms many counters costing much more. The 1500A can be powered by 9-12 VDC, AC adaptor or internal Ni-Cad batteries. The excellent UHF/VHF sensitivity makes it ideal to use with the telescoping antenna for easy and acccurate measurements of transmit frequencies from handheld, fixed or mobile radios such as: police, ham, car telephone, marine, aircraft, etc. The 1500A can also be used with a probe to measure computer clocks, oscillators, etc.

#1500A	1-1500 MHZ FREQUENCY COUNTER	**$99.95**
#BP-15	RECHARGEABLE NI-CAD BATTERIES (INSTALLED)	**$20.00**
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IMPROVE RANGE AND SENSITIVITY OF YOUR LOW FREQUENCY COUNTER WITH OUR

AMPLIFIER — 1.6 GHZ PRESCALER — SS BAR GRAPH

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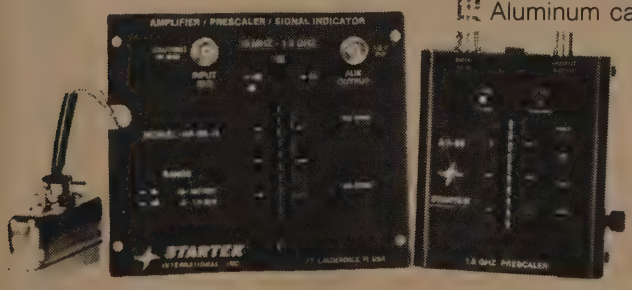
Same features as AP-90 but custom configured as a plug-in accessory for Hewlett Packard counters #5245L/M, 5246L or 5248L/M.

MODEL AP-90
Extend the range of any counter capable of counting 16 MHZ or higher to 1600 MHZ with super sensitivity of 1-5 mV RMS typical over the entire range. A 10 segment LED bar graph displays signal strength of the input signal. ÷ 10, 10-500 MHZ; ÷ 100, 300-1600 MHZ. 1-2 V P-P output. Aluminum cabinet, 110VAC adaptor included.



#AP-90	(AC adaptor included)	**$159.95**
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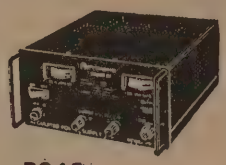

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Output 13.8 VDC, 10amp constant 13amp surge low ripple, electronic overload protection w/instant auto reset.

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Fully regulated, 10 - 15 volt variable, 25amp constant 27amp surge, low ripple output, electronic overload protection w/instant auto reset, fuse protected, with Dual Meter for current & voltage.

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Same as above except, 35 amp constant - 37 amp surge, adjustable from 10 to 15 volts.
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BP-5	10.8v	500mah	$21.00
BP-7	13.2v	500mah	$23.00
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BP-23	8.4v	600mah	$22.00
BP-24	7.2v	600mah	$26.00

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PB-21H	7.2v	600mah	$15.00
PB24 Tabs	9.6v	600mah	$15.00
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1991 **JANUARY** 1991

SUN	MON	TUE	WED	THU	FRI	SAT
L.Q. 7	N.M. 15	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	F.Q. 23	F.M. 30

LAST MONTH **DECEMBER** 1990

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24 31	25	26	27	28	29

NEXT MONTH **FEBRUARY** 1991

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

FREE 1991 CALENDAR

For the 18th year, FLORIDA SKIP is sending to it's members a Ham Shack Size calendar. The one shown here is in four colors, actual size. If you would like one, send us a Self Addressed Stamped Envelope (SASE) any size. Send it with your Renewal payment or any HAMBAR ad. We give one day service. They are Free, but donations accepted. Editor. SEASONS GREETing to all.

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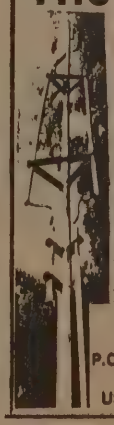

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RATE CARD INFORMATION

HAMBAR service of electronic equipment only is available to all subscribers, amateurs and non-amateurs at the rate of 10 cents per word, which includes address, call sign, etc. Minimum charge for any HAMBAR is $3.00. All commercial and non-subscribers rate is 15 cents per word. Minimum charge of $5.00 for each HAMBAR. No reruns. Each HAMBAR must be resubmitted each month. No ad will be published unless accompanied by full remittance! We require all HAMBAR ads contain the full mailing address, call sign, zip and area-phone number, if any. Make it easy for person wanting to buy your equipment. No HAMBARS via telephone!

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Full-page $125.00. Half-page (1/2) $80.00. One-quarter (1/4) page $55.00. One-third (1/3) page $70.00. One-eighth (1/8) page $40.00. Camera ready. Lay-out, make-up and typeset fee is extra according to size of ad and typeset required for same.

Deadline for all HAMBARS and ads, eighth (8th) of each month in P.O. Box 501, Miami Springs, Florida 33266. Normal mailing date 25th of each month. Thank you for your cooperation.

—Editor.

SELL: Kantronics UYU Interface for RTTY, AMTOR or Morse. All manuals, mint. $75. Howard Dutkio N4BBT, 19420 NE 23 Ave., Miami, FL 33180 305 935-5214.

WANTED: Packet eqyuoment. Your excess TAPR 2 type TNC's including AEA PK-80's and PacCom TNC-200's. Also Motorola MAXAR 50 UHF mobile radios. FOR SALE: or Trade: Motorola HY-200. Please state condx and price. Doug Welcher WB4KGY, 6660 Katherine Rd. West Palm Beach, FL 33413 407 686-3747.

FOR SALE: 40 ft of Rohn 45G tower. Excellent condx. No rust. No base plate, no hardware, no guy lines. No turnbuckles no top section. Sell all or part. $50. per section. or best offer. Adam Wantuck WA4QQR Box 4129 Margate, FL 33063 305 752-7781.

COMMADORE 128, 1702 color monitor, 1541 disk drive, joy stick, mouse, 80 col. cable, manuals, loads of software. $350. Howard Dutkin, N4EBT, 19420 NE 23 Ave., Miami, FL 33180 305 935 5214.

ELECTRONIC equipment of Larry Hamilton (W4DSI) Estate Sale: Alpha 78 linear amplifier $1200. with man. RF Distortion indicator scope mod. DT-1 P&H Electronics, Lafayette, Ind. $90. TEN-Tec Corsair transceiver mod. 560 with power supply..Model 260 $590.TEN-TEC Omni V with power supply mod.961 de luxe, manual. Both never used $1600. Paid over $2200. TEN-TEC PM3 PM3A transceiver - 5 watts input $75. manual. MB IV antenna tuner $200. (Push buton - SWR bridge built-in) McIntosh 275 watt audio amplifier (2) Electro-Voice Georgian 400 speakers. McIntosh C11 pre-amp. and more. Details from O. B. Bivens W4RB, 6395 Chapman Field Dr., Miami, FL 33156 305 665-6174.

FOR SALE: One 20 ft. section of Rohn self-support tower. Size 8N section section, on the ground with all the cross members, excellent condition. No Hardware. Would need Nut and Bolt kit from factory. Needs a pad of 8 1/2 ft. at the base for this section. $600.00 Adam Wantuck WA4QQR, Box 4129, Margate, FL 33063 305 752-7781.

SELL: DRAKE TR7, PS7, MN7 (ant tuner) Mic, CW Filter, just reconditioned from Drake, transceive from 1 MHz to 30MHz. Butternut vertical, all in exccellent condx complete package $1600. Jason Ho, AB4RB 8261 NW 198 st. Miami, FL 33015 305 591-8797.

WANTED: OLD C'W' KEYS, Speed Keys, or parts for my collection. Also SWAN-508 ext. vfo unit. For Sale: Kenwood MC-60 desk mic works well. Del K8KJP, 4439 Gatlin Grove Dr., Orlando, FL 32812 407 275-8285.

NOTICE NOTICE NOTICE' The 1991 Famious Florida SKIP calanders are now available free to any SKIP member. Send any size S.A. S.E. (a must) to P.O. Box 501, Miami Springs, FL 33266 for yours. Happy Holidays.

MANUAL: AZDEN PCS-300 2 meter handheld transceiver instruction manuals. $5. each post paid (Have 2) andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

NEED TUBES?? Have huge inventory, including 3-500Z 572B's etc. Call or FAX for price quotes. Also buy tubes, D & C Electronics, Dick Gross, N1BGL, 3089 Deltona Blvd., Springs Hill, FL 34606 904 688-2374 FAX 904 683-9595.

FOR SALE: 45 Ft. tower, mast, rotor, control, Cushcraft A3s tribander, gin pole and winch. $300. 2000 tuner $200. 5 att. remote switch $75. Pre-amp $40. Swan SWR & watt meter $75. Art Wilhelms N4DKV, 2801 Lake Vista Dr. Kissimmee, FL 34744 407 348-2134.

EVERY PERSON HAS TWO EDUCATIONS: ONE WHICH HE RECEIVES FROM OTHERS AND ONE, MORE IMPORTANT, WHICH HE GIVES HIMSELF.... Tks W4ZGG.

SALE: 7/8 inch Heliax with connectors, 2 runs, 300 ft. and 400 ft. $2.00 per foot. Commercial UHF antennas complete with tower mounting hardware & harness. 2 8 bay and 1 16 bay dipole, one 4 bay dipole VHF antenna with hardware. All perfect and repeater use. Contact Sam, W4KUM 813 676-4912 or Rick WA9IJW 813 439-2610. After 6 PM. Same Baine W4KUM 1306 Lake View Rd., Lake Wales, FL 33853.

FOR SALE: ICOM 761 transceiver in excellent condx. very very low hours. Non-smoker. Operating and service manuals. $1775. Ray Kemper K4ICB, 2630 Bismark Way, Sarasota, FL 34231 813 922-0138. Will split shipping.

ONE THING THAT CAN BE SAID ABOUT TODAY'S YOUNGER GENERATION IS THEY ARE BASICALLY A GROUP THAT IS ALIKE IN MANY DISRESPECTS!

FOR SALE: 18ATV Hy-Gain vert. antenna. Cushcraft Ring Ranger 2 meter $25. each. Myles Myers W4OMC, 801 Cinnamon Dr. Winter Haven, FL 33880 813 299-7820.

WANTED: I need a motorola T-44 450 MHz transmitter. I'm sure someone still has one in their JUNK box. It used a 2C39 driving a 2C39 final. It was very popular during the 70's to convert to A.T.V. Richard Marsh WA4JJQ, 7350 Buchanan St., Hollywood, FL 33024 305 961-6839. Mornings or leave message include condx and price.

WANTED: URGENTLY need set of coils for Measurements Corp. Dipper. Robert Alterbaum WF2C, 3161 Crystal Way Miramar, FL 33025.

FOR SALE: SWAN TWINS 600T and 600R Custom two VFOs work split or transceive. E. J. Backloupe Jr. WB5VXW, 20850 Griffin Rd., Ft. Lauderdale, FL 33332 305 434-6256 Come try it out
(Skip editors note. I have one for 15 years now and would not sell it for anything!! AC)

FOR SALE: Hustler G-6-440 $75. Also Comet 2X4Z 144-440 $125. 16 ft high gain fiberglass vertical. Price negotiable. Robert Alterbaum WF2C, 316 Crystal Way, Miramar, FL 33025 305 431-3987.

LOCAL PRIVATE ELEMENTARY SCHOOL. Seeking donations of computer software, hardware, ham gear. Call Marion Sternstein KA4ULJ, 8311 NW 64th St. Bldg. I Miami, FL 33166 305 477-6192.

NOTICE NOTICE HAMBAR USERS NOTIC NOTICE
Please printe clearly your items for sale. Give complete mailing address and phone numbers. If your HAMBAR arrives after the 15th of the month it will be included in the next months issue. HAMBARS must be submitted in writing only. Do NOT call on phone. All Hambars must be submitted each month. Do NOT send double payment for 2 months. Thanks for your support.....AC

RELAYS :: 12 VDC Dow-Key coax wwitch with DPDT ext. contacts. & Price Elec. coax switch 12VDC $12.00 Have two Dow-Coax relays 24VDC - $8. each. Danbury coax relay with BNC connectors $12.. AGEGA Antenna Noise Bridge mod. 5501 10 to 90 ohm. requires 9 V battery (included) $15. Realistic SP-150 Communications spkr 3 W, 8 ohms Grey cabinet 4½D X 3W X 6½H. $15. All plus UPS. Andy Clark W4IYT 41 Lenape Dr., Miami Springs, FL 33166

BARGAINS: Hy-Gain Explorer 14 tri-bander with 40 mtr kit $225. Bird 43 wattmeter, five elements, case $250. Bob Saulpaugh AG3S, 420 NE 44th Terr., Oc Ocala, FL 32671 904 694-3214.

THE LITTLE BOY TOLD THE BARBER HE WANTED HIS HAIR CUT JUST LIKE HIS GRANDDADDY'S: REAL SHORT WITH A HOLE IN THE TOP... TU W4GZ

EQUIPMENT RACKS: Aluminum and steel 3' to 6' $35. to $150. Call 305 477-6192 MBS Labs, 8311 N.W. 64th St. Bldg. 1, Miami, FL 33166.

TOWER FOR SALE: 3 sections of Rohn 25-G 10' $35. per section. Also 40 ft. commercially built, 3 leg. triangular type tower 10 ft sections. All 40 ft for $65. each. Call Mark Lavallee N4XGZ, 1900 N. 39th St. Hollywood, FL 33021 Eve. 305 961-2642.

COAX AND CABLE SALE: brand new spools RG59U 1000' $75. RG11U 1000' $100. 5 conductor No. 18 PVC 1000' $75. 6 pair no. 20 1000' $50. 2 pair No 22 stranded 1000' $50. 2 conductor No. 22 shielded Taflon Alarm cable 1000' $65. New 3" 50 ohm Heliex $12.00 a ft. More. Call 305 477-6192. MBS LABS, 8311 NW 64th St. Bldg. 1, Miami, FL 33166.

WUALITY TOWER SERVICE. Antenna and tower installation/dismanteling, complete tower inspection and maintenance, rotor replacement, reasonable rates, serving South Florida. N4XGZ, Mark Lavallee, 1900 N. 39th Ave. Hollywood, FL 33021-4841 Call evenings 305 961-2642.

WANTED: To talk with the person at the Melbourne Hamfest who was set up outside the auditorium who was selling "tye down straps"...Please call: Adam Wantuck WA4QQR, 305-752-7781. Would like to buy rmore straps, if available.

SELL: Commodore C-64 AEA PK64A W/H.F. modem, upgrade and special two foot cable. 1525 printer FSD-I disk drive , B&W TV monitor, all manuals $390. Gregg M. Eberman W2SDV, 2201 Brian Ave., South Daytona, FL 32119 904 761-0867.

FOR SALE: Linear amp 4-400 a all band with 17 meters all in one cabinet. I will not ship this amp. The buyer must try it at my house. The amp is home brew with new tubes $295. or no checks please. George Pastor, 9910 Island Harbor Dr., New Port Richey, FL 34668 913 942-1580 ..

BUY AND SELL: COMMERCIAL VIDEO audio and microwave equipment. Call Bob Brown W2EDN, 140 Lenape Dr., Miami Springs, FL Day 305 884-8686 nite 883-8669.

NOW YOU CAN OWN THE ULTIMATE JRD-JST 135 or JST 135 HP HF transceiver. Also the general coverage HF receiver JRC-NRD 525 or NRD 535. Our speical prices. JST-135 $1749. JST-135 HP $2949. NRD-525 $1049 and NRD-535 TBA. Call Henry N4EDQ AMATEUR RADIO SALES 1-800-828-6433. Also let us be your accessories and complete radio store.

SELL: Good used Eimac 8877 tube ..1kW output $150. WANTED CDR HAM M control unit series 3 or 4. Elmer Shafer N8ES 3479 Kersdale, Rd. Pepper Pike, OH 44124 216 831-9198.

GOOD RESOLUTIONS ARE OFTEN CHEOKS DOWN OR ACCOUNT WITH INSUFFICIENT FUNDS...KI4GH.

NEED REPAIRS to my TRi-Gander beam and 2 meter beam on a 70 ft Rohn fold over tower. Week end work only when I am at home. Call for details. 813 334-0531 work 332-0464. Home after 6PM. Doc WA4HDH, 1362 Plumosa Dr., Ft. Myers, FL 33901. I am still loaded with"HISTORY OF QRN" 25 bucks shipped to you. You old members of QFN will enjoy reading your fun times and seeing your stats from yester year 1959 to 1980.

METERS: Simpson Elapsed time, 120 V. AC 60 Hertz meter. It measures time elapased on Tenths and Hours. Total hours can measure is 99,990. Black case with 2 ½ Sq. face mounting screws $15. Standco Running Time meter, same as above except round. 3" round face $12. 2½" round black case, mounted in alum. case a 0 to 5 AMP RF shunted meter. Case has PL-258's mounted on each side $12.00 All plus UPS. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

HEATH MANUALS: Have 54 Heath original manuals and info sheets/diagrams available. $3 to 15 dollars each. Andy Clark W4IYT 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874. What do you need ? SASE for list.

WANTED: Precision VTVM series EV-10A. Carl Seidler KE4VE, 5801 Festivo Dr., Holiday, FL 34690 813 934-2903.

SALE: ICOM 740 solid state Trncur $650 w/man. ICOM 27A 2 mtr 25 watts xcvr $175. Heath kit dual trace scope $150 w6man.Yaesu FC102 all band tuner $175 w/man. Drake 2C all band rcvr $100 w/man.Globe c.w. Xmtr $100.Hammarlund HXL-one uses 2 -572Bs $350 w/man. Ham Key lambic and straight key $35. B&W rotory ant. switch (Protax) $25. 1 freq counter $50. 1 Millen Grid Dipper $50. a 1 - 6AMP 12 V P.S. $15. Heath kit 2000 PEP tuner kit $175. Eico VTVM new $35. w/man.scott stero receiver $35. Pick-up only. Lou Perlmutter W4LP, 437 Golden Isles Dr. 7G, Hallandale, FL 33009 305 458-6094.

SELF DISCIPLINE IS THE FREE MANS YOKE.. KI4GH

FOR SALE: "MAXI tuner" 3 kW johnson rotary inductor 600V caps cast aluor counter dial, hvy duty palum made by RF Power Co. $150. Sell 5 band dipole for 80/40/20/15/10 by SPI-Ro Co. 6 Traps $45. Sell CDR rotator model 45. Like Ham M, new condition, plus contr l unit $140. E. Shafer N8ES, 3479 Kersdale Rd. Pepper Pike, OH 216 831-9198.

SALE: Heath SB-200 linear amplifier 6 new capaciters no rust, no scratches, very clean - a 2kW watt meter HM-102. All patch cords, manuals - wired for 110 VAC Ready to plug in. Fan included - 10 to 80 meters $325. ICOM 02AT with 5 watt BP7 battery - BC35 desk charger - PB3 wall charger - cigarlete lighter-plug, carrying case - shoulder strap, assorted antennas. $295. Harry Dukas KI4GH, 275 NW 119 St., Miami, FL 33168 305 681-0522.

WE TREAT THIS WORLD OF OURS AS IF WE HAD A SPARE IN THE TRUNK.. tks. KI4GH... ..

FOR SALE: 12VDC 62 amps power supply. L&H mighty-mite with over voltage & over current protection. Voltage adjustable 10.5 to 14.5 volts $90. Plus shipping Almost newclimbing belt. Light weight nylon with gafety strap. Made in Germany. $40. Plus shipping. VISA & M C QUESTELECTRONICS, 303 623-7700.

SELL: DRAKE TR4C remote VFO power supply $375. Fred Levine, 964 Normandy Ln. Del Ray Beach, FL 33484 407 496-4095.

COLLINS AMATEUR for sale. Collins S Line 75S1 with CW filter - 32S1 plus supply. For the best modulation on the band - warranty labor repair one year $600. Steve Pautard WN4I, 5833 Dryden, West Palm Beach, FL 33415 407 689-8819.

FOR SALE: Galena crystal receivers and parts. Write for more detail. Very sensitive and selective circuit developed. L. Gardner, 458 Two Mile Creek Road, Tonawanda, N Y 14150 716 873-0447.

SELL YAESU transceiver FT901 DM 160 to 10 meters. 180 watts, A C & D C power supplies built in, digital readout, optimized by International Radio Shops, new mic and manual. $495. OBO (Or best Offer.) Stan Bittner W4JKK, 10821 SW 67 Ct., Miami, FL 33156 305-667-2417

WANTED: HAM EQUIPMENT AND OTHER PROPERTY' The Radio Club of Junior High School 22 NYC, Inc. is a non-profit organization, granted 501(C)(3) status by the IRS, Incorporated with the goal of using the theme of Ham Radio to further and enhance the educztion of young people nationwide. Your property donation or financil support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. As 1991 begins please look over whatever unwanted equipment you may have, and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. Write us at: THE RC OF JHS 22 NYC, Inc. P.O. Box 1052, New York, NY 10002. Round the clock HOTLINES: Voice 516 674-4072, FAX 516 674-9600.

BULLETIN

By Dick, WA4PFK

To: All Florida Amateurs

Subject: State Antenna Legislation

WA4PUP, S.M., North Florida, and KC4N, state government liaison, are working to develop state-wide legislation which will review local planning growth plans so that the plans will not pre-empt the FCC Ruling. That is, we will have a state law that will include the FCC PRB-1.

If you know any representative or senator, please have them contact Representative Hurley Rudd from Tallahassee or his aide, Jim Trunszo. You should ask that they contact one of these individuals and co-sponsor the legislation. They should inquire about "antenna support structures for amateur radio."

At such time we can have a completed draft of the bill and a number. Please spread the word!

FRIENDS TO THE SOUTH SHUN R.O.S.E.

By Gerry Wentz, KC4EHT

Florida Skip Correspondent

George Kremkau, N5AUV, proprietor of Melbourne's packet node and BBS, sang a song of praise for the new ROSE Node software, recently implemented on his station, at a meeting of South Brevard Packeteers held at the Red Cross Building, Wednesday, October 24th. Twenty-seven interested packet operators packed plently of questions for George, who probably simplified what appeared to be a complex problem for many.

In a nutshell, one need only know the destination identification numerical and a little bit about connecting procedures; the software will then take over and do all the work for you. By all indications, operating nodes elsewhere in the United States, have shown good reliability, increased speed and reduced saturation of the node that often results in time-outs under the older and soon-to-be outdated systems.

George pointed out the discouraging fact that most points south of Melbourne, have not converted to the new ROSE system and consequently, have become one of the remaining black holes in an otherwise nationally compatible system with a proven track-record of success. For reasons, mostly political and known only to the reluctant group of operators, our neighbors to the south are preventing one system from linking the entire country and eventually the world.

The ROSE system is used extensively in Europe and their experience and technology surpasses that currently used in the United States. With the international implementation of the ROSE system, it is conceivable that one could connect to a packet station in Europe with the simple addition of a five-digit code added to the present six-digit code. Once the United States ROSE operators come up to speed with their systems, interfacing with the international system will be academic.

At this point, I don't fully understand why our fellow amateurs to the south are unwilling to subscribe to what appears to be a proven standard and jeopardize one of our more important links in the national chain. If the problem is rooted in politics, I believe there are a bunch of individuals that better re-examine their goals and how they relate to amateur radio as a whole and not a part.

KNIGHTS OF THE KILOCYCLE

3910 kc. Sunday Morning 1230Z, 0730 EST

By Bob McDow, W4KOG

Hope everyone had a nice Christmas, and got whatever kind of new rig they wanted!!! And just hold on, in another week or so all of the turkey leftovers will be gone and you can get back to your Hamburger Helper.

Got to talk to Earl, W4AYD and Jim, W4JM, at the Okechobbee Hamfest. I sure had a good time and want to pass my thanks to Earl and all the rest over there on consistently having one of the best if not the biggest in the area.

For any who haven't been on the net lately, we have gotten word that Creed, W4TZ, has had a stroke and is recovering nicely at this time. For those who would like to send a QSL, here is his home address: Creed Chorpening, Route 1, Box 367, Clarion, Pennsylvania 16214. Send him a card!!! I'm sure he'll enjoy. Also, sorry to hear that Wendy, W1UCL and Don, K7DWT, are also on the ailing list. Hope all are better by time this is printed.

Hope that's all of the bad news for the year!!! All-in-all, its been a good year for most of us!!!

I'm still plugging away, trying to learn how to run this "packet" machine. It's a whole new experience and us old-dogs don't learn the new tricks too fast!!! I have gotten to where I can get in touch with one or two other stations so I guess it's just a matter of time. I'll keep plugging away and keep you up-to-date on my progress. For any of you who operate on that mode, my BBS is at N4QWN and my zip is 33408, if anyone would like to send encouragement . . . Hi . . . Hi

All of our world travelers are slowly coming back to roost. Wes, W4COW and XYL Blanche, W4GXZ, are back from their summer habitat. Jay, K9BSL and Clyde, KM4WO, have returned from their extensive cruise. Wendy is back from his holiday in the sunny city (???) of Hartford. (All the guys from Connecticut pronounce it "hot fud".) Also, welcome to new member Marv, KB4ESJ, to the net . . . we're getting back up to full strength for the winter.

I'm planning on taking the XYL Bonnie, for a big weekend camping in the motorhome at the Miami Hamfest in February, so I'm looking forward to seeing a lot of you there. Hope to do the same thing for the Orlando Hamcation in March, but that will depend on how things shape up by then.

Happy birthday to Doc, W4SME and Clyde, KM4WO. Also, congrats to Clyde and his XYL on their anniversary!!! Hope you enjoy many more.

See you on the net, and 73 and 88 to all.

DADE • BROWARD • MONROE

America Radio Club invites all radio amateurs to its free indoors hamfest. Yes it is free. Bring your things we'll provide the space.

Location is Palm Avenue at the corner of 6th Street. This is across from the Hialeah City Hall. Hours are 12 noon to 5:00 p.m.

This event will be held four times a year, which started with October 6th. The next Swapfest will be on January 5, 1991.

Talk frequency are 145.350 and 146.730.

SARASOTA HAMFEST & COMPUTER SHOW

February 16th and 17th, 1991

ROBARTS SPORTS ARENA, 3000 RINGLING BLVD. SARASOTA, FL

Free parking, forums, many prizes. Saturday activities: tour to Jungle Gardens, shopping & lunch; banquet 7 pm. VE exam Sunday 10 am. R.V. hookups, reservations necessary.

FOR TABLES AND BOOTHS: Gene Marino, 4858 Tivoli Ct. Sarasota, FL 34235 (813) 355-0675

TICKETS: Chairman John Bates, 5604 Antoinette St., Sarasota, FL 34232 (813) 371-6104

$5.00 in advance with SASE, $7.00 at door.

TALK-IN: 146.910 repeater.

From P. 1

foreign policy as a member of the State Department's Policy Planning Staff under Secretaries Cyrus R. Vance and Edmund Muskie.

His particular experience bodes well for ham radio at the upcoming World Administrative Radio Conference in 1992, where our spectrum will be placed under intense international scrutiny.

A consummate communicator, Duggan established Ervin S. Duggan Associates, his own communications firm to serve large corporate clients, which he headed from 1981 until he took up his duties at the FCC in early 1990.

Duggan has called for major reform of the FCC power structure. Some of the prohibitions he suggests changing are: permitting more than two commissioners to meet in private, restoring the independence of bureau chiefs, encouraging the FCC staff to present alternative solutions and requiring bureaus to work with all commissioners.

When **Florida Skip** asked the FCC Media Office to arrange an interview with Commissioner Duggan, we too ran into headwinds. First we were told the Media Office arranges interviews only with Chief Sikes, that we'd have to contact Commissioner Duggan's office on our own. Then News Media Chief Steve Svab stepped in, moving the obstacle aside and giving us full cooperation. Habits change slowly!

Fellow hams, wherever you stand politically, be it on the right, left or in between, we should all welcome the pluralism Duggan brings to the Commission and to our service.

Right now he's putting interviews on hold while he immerses himself in the complex issues facing the Commission. His agenda is brimming over. **Florida Skip** has a standing request for his first interview about ham radio, which we expect to bring you in the near future.

In the meantime, something in his past hints at what we might expect. Duggan is author of "Against All Enemies," published in hard-cover by Doubleday and Company and in paperback by Avon. The book, which grew out of his experiences at the White House, was named "Best Political Novel of the Year" by the Boston Globe.

Here's a maverick, an executive with sparkling credentials, a mover and shaker, someone who's his own person there to get the job done despite the heat. Commissioner Duggan, we at **Florida Skip** welcome you warmly.

Desert from P. 1

periods when radio operators manning AEM3USA have extra time.

AEM3USA went on the air November 6th. During its first week of operation MARS operators handled more than 4,000 pieces of traffic.

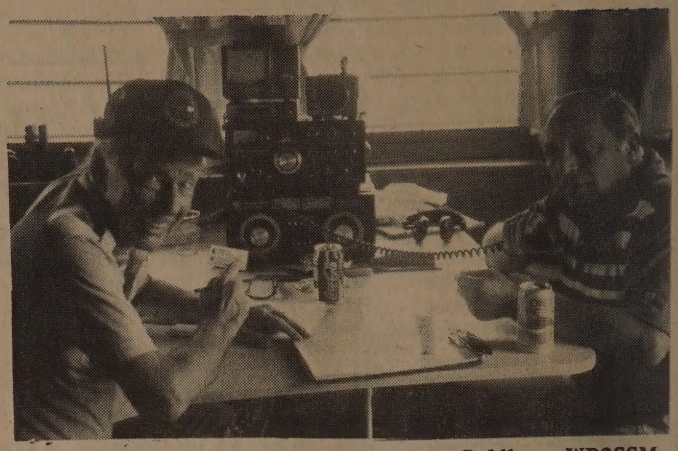
HZ1AB already had an elaborate station, established by local radio operators, many of whom work for the Saudi Arabian Oil Company, Saudi Aramco. During military preparation that took place after August 5th, when Iraq invaded Kuwait, HZ1AB's antennas, including a full-size log-periodic, were destroyed.

Present radio operations are taking place on several home-made dipoles. The station has two Kenwood 440s, one Kenwood amplifier and a packet radio set-up.

A majority of the radio messages are relayed by packet from the United States to Germany, from there to AEM3USA in Dhahran, and from there to mobile radio operators assigned to operations in the field.

On November 5th, three months after the invasion of Kuwait, and with several hundred thousand troops participating in Operation Desert Shield, AEM3USA was up and operating. Soon thereafter, military radio operators contacted local amateur radio operators to obtain their assistance in operating the station and received immediate help.

The first civilian radio operator joined the operation a day later and the station is now manned by area amateur radio volunteers who operate the MARS Station before and after their regular working hours.



Claude Kelly, K4OGS (right) and Lou Goldberg WB2SSM are shown operating the 15 M. station of W4HAW at the Field day site of the West Palm Beach Radio Club.

Prior to November, AEM3USA was operated by two military communications specialists. In mid-November, eight military communications specialists were assigned to man the station.

AEM3USA is a gateway station, it handles a large percentage of the thousands of radio messages from families and loved ones living in the United States to troops in Saudi Arabia. At present, eight military personnel have been assigned to the station and 10 amateur radio operators have volunteered to assist them from six to 10 hours a day, seven days a week.

Messages received from the United States vary from updates on the welfare of family and friends at home, to requests for assistance. In addition, soldiers located hundreds of miles from civilization on the borders between Saudi Arabia and Kuwait and Iraq are able to receive messages from family and friends at home and then respond via radiogram which is transmitted via voice or RTTY from their post to Dhahran and then by packet radio to Germany and on to the United States.

"When I was active in Army MARS in Florida I often wondered about the value of the drills and various procedures, now they have paid off," says Dave Kaiser, AL7HG, one of the AEM3USA volunteers. He said proper message-handling techniques and routines are being used with every message and since the Dhahran operation is a gateway for all messages coming to the area, his previous MARS training with Elmer (Andy, put in his name and call) are invaluable.

Most of the other volunteer radio operators manning the station have lived in Saudi Arabia for many years and lack previous MARS experience.

ATTENTION CORRESPONDENTS

Once again we are sorry we did not have room in this issue for your article(s).! To our surprise we received new ads, which we are happy to receive. All copy is set in type and will be put in upcoming issues.

73 AC

LOOK AGAIN

Look at the top line of your mailing label. This is your ONLY REMINDER WHEN YOUR SUBSCRIPTION RUNS OUT! You can renew ANYTIME before experation date and our computer will automatically "ADD ON" from that date. It is just like putting money in the bank. We take renewals for one, two or three years, if you so desire.

So it's up to you to watch that top line. If you miss, the computer will automatically skip over your address when printing mailing labels.

Thanks for your cooperation in this important matter. —73, Editor